

# FISH PASSAGE AESTHETICS GUIDANCE

## WSDOT BRIDGE AND STRUCTURES OFFICE

The *WSDOT FISH PASSAGE AESTHETICS GUIDANCE* provides three levels of importance to structures. 1.) Basic designs, 2.) Enhanced designs, 3.) Refined designs are used depending on context. The document will be used to facilitate collaboration between the WSDOT Bridge and Structures Office, region staff and stakeholders in complying with Context Sensitive Design principles.

### Context Sensitive Design & The Federal Highway Administration

The Washington State Department of Transportation implements the Federal Highway Administration's Context Sensitive Design (CSS) principles in the design of this project. CSS is a model for transportation project development that has received broad acceptance. Its essence is that a proposed transportation project must be planned not only for its physical aspects as a facility serving specific transportation objectives. It must be designed also for its effect on the aesthetic, social, economic and environmental values, needs, constraints and opportunities in a larger community setting.

WSDOT endorsed CSS for all projects, large and small by Executive Order 1028 in 2003, under Secretary of Transportation Douglas McDonald. After that Secretary Paula Hammond continued the practice and resigned an edited order. Standing Secretary of Transportation Lynn Peterson is currently redoubling these efforts.

### Aesthetic Design

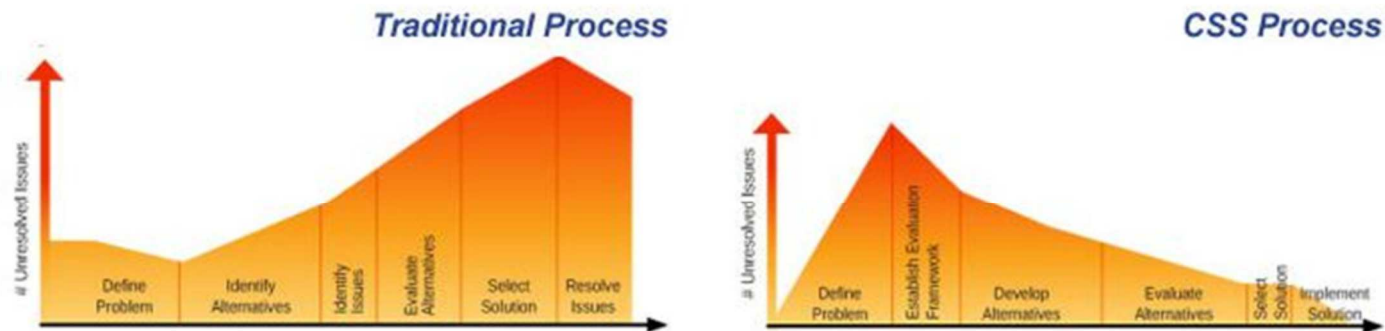
The goal of the recommendations is to influence the production of the aesthetic design. These will guide future designers as the fish passage designs are built out.

The recommendations are developed to aide in design. They are conceptual and outline typical situations. Throughout each phase of design and construction exceptional situations may arise in which a standard solution is not applicable. Specific situations must be assessed individually so that alternatives harmonize with the project as a whole.

**Matt Rochon PE Associate AIA**  
**State Bridge and Structures Architect**

**Paul Kinderman PE AIA**  
**State Bridge and Structures Architect, Retired**

# Context Sensitive Design



CSS delivers projects efficiently by addressing stakeholder issues early

“ All projects large and small must be designed for it's effect on the aesthetic, social, economic and environmental values, needs, constraints and opportunities in a larger community setting.”

WSDOT Executive Order 1028

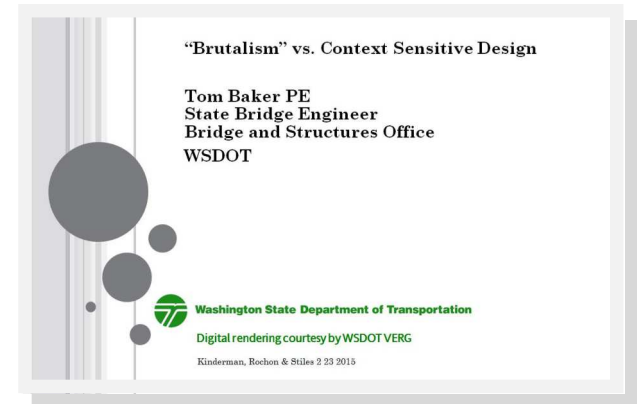
# Context Sensitive Designs

## Strategy: Three Level Architecture

**Basic Designs:** Class two smooth concrete.  
Seen by almost no one.

**Enhanced Designs:** QPL/Standard form-liners.  
Highly visible settings.

**Refined Designs:** Community Input/Public Art  
High profile settings.



Reference: Tom Baker PE presentation  
identifying three levels of  
aesthetics.



**Basic Design:**

Yarrow Creek Structures

Class two finish as described in *WSDOT Standard Specifications* 6-02.3(14)B.

The use of pigmented sealer is dependent on risk of graffiti.



Class two smooth concrete

**Basic Designs:**

**Basic Designs:**

Class two smooth concrete.

Seen by almost no one.



Cascadian Stone QPL formliner

#### Enhanced Design:

Existing SR 520 Corridor  
random board pattern



Cascadian Stone QPL formliner

#### Enhanced Design:

Twanoh Falls Creek



Showing WSDOT cost effective QPL  
concrete surface treatments.



#### Enhanced Designs



Enhanced designs are accomplished with  
common construction methods and materials.

#### Enhanced Designs:

QPL/Standard form-liners.  
Highly visible settings.





Artist Design Example  
applied to basic design



SR 202 Sahale Way  
existing tree pattern

### Refined Designs



Artist Design Example:  
modernist stylized fish design  
applied to basic design

### Refined Designs



Design Example:  
*Roads and Bridges  
Magazine*



Various examples of WSDOT built work.  
Specific projects require compliance with  
Design Manual chapter 950 Public Art.



### Refined Designs



Refined designs are accomplished with  
common construction methods and  
materials, however with custom  
designs.

**Refined Designs:**  
Community Input/Public Art  
High profile settings.